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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,931	08/21/2003	Cheol-Min Jeon	1349.1271	7373
21171	7590	11/14/2006	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			SINGH, RAMNANDAN P	
			ART UNIT	PAPER NUMBER
			2614	

DATE MAILED: 11/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/644,931

Applicant(s)

JEON, CHEOL-MIN

Examiner

Ramnandan Singh

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>May 04, 2006</u> | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Aug. 14, 2006 has been entered.

### **2. Preliminary Amendment and Request for Interview**

The Preliminary amendment filed on Aug. 14, 2006 is approved.

Further, as per Applicant's request for interview before issuance of a first Office action, the personal interview with the Applicant's representative, Stephen T. Boughner, Attorney for Applicant, was held at 2:00 PM on Nov. 3, 2006 in the Office of the Examiner in Knox Building, 501 Dulany Street, Alexandria, VA 22314 to discuss the Final rejection issued on March 14, 2006.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-12, 17-20, 22-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Kingen et al [US 4,496,799].

Regarding claim 1, Kingen et al teach a communication apparatus having a one-way speakerphone operation shown in Fig. 1, comprising:

a handset connected to the communication apparatus by a transmit-receive line, for a two-way communication operation, wherein the transmit-receive line is enabled when the handset of the communication apparatus is off-hook [col. 2, lines 35-49];

a speaker outputting a sound of the handset communication, to implement the one-way speakerphone operation (one-way speakerphone operation implies muting of Rx or Tx) [col. 3, lines 5-18];

an input key (keypad K1) part comprising a selection key for the one-way speakerphone operation and a plurality of dial keys for a dialing of the communication apparatus; and

a central control device (i.e. logic circuit) controlling the one-way speakerphone operation of the speaker [;

wherein a conversation signal is transmitted through the speaker in response to the handset being off-hook, the one-way speakerphone operation selection key signal being input, and dialing having being completed [col. 1, line 62 to col. 2, line 21; col. 2, line 35 to col. 5, line 7; claims 5, 7].

Claims 6, 22, 23 are essentially similar to claim 1 and are rejected for the reasons stated above.

Regarding claim 3, Kingen et al teach a method of controlling a communication apparatus having a one-way speakerphone operation shown in Fig. 1, the method comprising:

detecting whether a handset, for a two-way communication operation, and connected to the communication apparatus through a transmit/receive line, is off-hook [col. 2, lines 35-49];

detecting whether a signal of a one-way speakerphone operation selection key in an input key (keypad K1) part of the communication apparatus is input;

opening the transmit-receive line of the handset upon detection of the handset being off-hook and the one-way speakerphone selection key signal is input;

detecting whether a signal of a dial key, for a dialing of the communication apparatus, in the input key part is input within a predetermined time [col. 2, line 67 to col. 3, line 4; claim # 1];

determining whether a dialing is completed [claim 5]; and

upon determining that the dialing has been completed, opening a line connected to a speaker of the communication apparatus and performing a one-way speakerphone operation to output a sound through the speaker during the handset conversation [col. 1, line 62 to col. 2, line 21; col. 2, line 35 to col. 5, line 7; claims 1, 5].

Claim 17 is essentially similar to claim 6 and is rejected for the reasons stated above.

Regarding claim 2, Kingen et al further teach the communication apparatus having a one-way speakerphone, wherein when the dial key signal is not input within a predetermined time of the handset being off-hook and with the one-way speakerphone function selection key signal being input, the central control device switches to an on-hook dial mode in which a user dials with the handset being on-hook, and the conversation signal is output through the speaker for a two-way speaker operation [col. 6, lines 13-41].

Claim 4 is similar to claim 2 and is rejected for the reasons stated above.

Regarding claims 5, 18-20, the limitations are shown above.

Regarding claim 7, Kingen et al further teach the communication apparatus, wherein the transmit-receive line is enabled when the handset is off-hook [col. 2, lines 35-39].

Regarding claim 8, Kingen et al further teach the communication apparatus

comprising an input key part (keypad K1) comprising a selection key for the one-way speakerphone operation of the speaker and a plurality of dial keys [Fig. 1; col. 4, lines 31-65].

Regarding claims 9-12, the limitations are shown above.

***Claim Rejections - 35 USC § 103***

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kingen et al [US 4,496,799] in view of Lipton et al [US 5,991,398].

Regarding claim 21, Kingen et al a device to perform a process of controlling a communication apparatus shown in Fig. 1, the process comprising:

opening a transmit-receive line of a handset, connected to the communication apparatus for a two-way communication, when the handset is taken off-hook [col. 2, lines 35-49];

determining whether a one-way speakerphone mode has been selected (selection key is pressed); and

upon determining that a dialing of the communication apparatus has been completed [col. 2, line 67 to col. 3, line 4; claim # 1], opening a line connected to a speaker of the communication apparatus and performing the one-way speakerphone operation to output a sound through the speaker during the handset two-way communication [col. 1, line 62 to col. 2, line 21; col. 2, line 35 to col. 5, line 7; claims 1, 5].

Kingen et al do not teach expressly using a machine-readable storage storing information to enable a device to perform the method.

Lipton et al teach a machine-readable storage storing information to enable a device to perform a method [col. 10, lines 56-64; col. 12, lines 33-48; col. 14, lines 36-57; col. 16, lines 24-42].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Lipton et al with Kingen et al in order to automate the process for speedy execution [Lipton et al; col. 10, lines 56-64].

7. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kingen et al as applied to claim 6 above, and further in view of Lipton et al [US 5,991,398].



Regarding claims 15-16, Kingen et al do not teach expressly the communication apparatus comprising a memory device that stores user data and a program for the control device.

Lipton et al teach the communication apparatus comprising a memory device that stores user data and a program for the control device, wherein the memory device comprises a ROM and a DRAM [col. 10, lines 56-64; col. 12, lines 33-48; col. 14, lines 36-57; col. 16, lines 25-42].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Lipton et al with Kingen et al in order to automate the process for speedy execution [Lipton et al; col. 10, lines 56-64].

8. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kingen et al as applied to claim 6 above, and further in view of Parks et al [US 5,877,746 A].

Regarding claims 13-14, Kingen et al do not teach expressly using a personal computer interface.

Parks et al teach a communication apparatus comprising a personal computer

interface coupling a personal computer (42) to the control device, wherein the personal computer interface interfaces the communication apparatus and the personal computer to transmit information there between [Figs. 4, 17; col. 6, line 50 to col. 7, line 46].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Parks et al with Kingen et al in order to integrate the system using the computer interface [Parks et al; col. 6, lines 50-64].

### ***Response to Arguments***

9. Applicant's arguments filed on Aug, 14, 2006 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

(i) Kim [US 5,982,880] teach a speakerphone in which the communication path of a microphone is controlled using a switch (60) [Whole document]; and

(ii) Barkat et al [US 5,805,672] teach conducting conversation using either a handset or a hands-free conversation unit 32 [Figs. 1-4; col. 5, lines 48-64].

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramnandan Singh whose telephone number is (571) 272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ramnandan Singh  
Examiner  
Art Unit 2614

A handwritten signature in black ink, appearing to be 'RS' followed by a long horizontal stroke.